

TECH CENTER 1600/2900

ENTERED

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/411,568
DATE: 05/03/2001
TIME: 16:07:25

Input Set : A:\Inga004c.app
Output Set: N:\CRF3\05032001\I411568.raw

3 <110> APPLICANT: CONRAD, CHARLES A.
5 <120> TITLE OF INVENTION: IN VIVO PRODUCTION OF ssDNA CONTAINING DNA ENZYME
6 SEQUENCE WITH RNASE ACTIVITY
8 <130> FILE REFERENCE: INGA,004/C/CIP
10 <140> CURRENT APPLICATION NUMBER: 09/411,568
11 <141> CURRENT FILING DATE: 1999-10-04
13 <150> PRIOR APPLICATION NUMBER: 09/397,782
14 <151> PRIOR FILING DATE: 1999-09-16
16 <150> PRIOR APPLICATION NUMBER: 09/169,793
17 <151> PRIOR FILING DATE: 1998-10-09
19 <150> PRIOR APPLICATION NUMBER: 08/877,251
20 <151> PRIOR FILING DATE: 1997-06-17
22 <150> PRIOR APPLICATION NUMBER: 08/236,504
23 <151> PRIOR FILING DATE: 1994-04-29
25 <160> NUMBER OF SEQ ID NOS: 29
27 <170> SOFTWARE: PatentIn Ver. 2.1
29 <210> SEQ ID NO: 1
30 <211> LENGTH: 42
31 <212> TYPE: DNA
32 <213> ORGANISM: Artificial Sequence
34 <220> FEATURE:
35 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
36 oligonucleotide
38 <220> FEATURE:
39 <221> NAME/KEY: modified_base
40 <222> LOCATION: (1)..(42)
41 <223> OTHER INFORMATION: "n" represents a variable nucleotide
43 <400> SEQUENCE: 1
OK> 44 nnnnnnnnnn nnnrggctag ctacaacgan nnnnnnnnnn nn 42
47 <210> SEQ ID NO: 2
48 <211> LENGTH: 258
49 <212> TYPE: DNA
50 <213> ORGANISM: Artificial Sequence
52 <220> FEATURE:
53 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
54 oligonucleotide
56 <400> SEQUENCE: 2
57 taatacgact cactataggg agacccaagc tggctagcgt ttaaacttaa gcttggtcgg 60
58 cggccttgaa gagcgccgc actcacgata gaggcgagaa aaagtgcggc 120
59 cgctcttcaa ggccgccgac cttaattaag tcagcggggg atcctttttg ggggctcgtc 180
60 cgggatcggg agacccttgg ccgctcgagt cttaggggcc cgtttaaacc cgctgatcag 240
61 cctcgactgt gccttcta 258
64 <210> SEQ ID NO: 3
65 <211> LENGTH: 252
66 <212> TYPE: DNA
67 <213> ORGANISM: Artificial Sequence
69 <220> FEATURE:

RAW SEQUENCE LISTING

DATE: 05/03/2001

PATENT APPLICATION: US/09/411,568

TIME: 16:07:25

Input Set : A:\Inga004c.app

Output Set : N:\CRF3\05032001\I411568.raw

RECEIVED

MAY 16 2001

TECH CENTER 1600/2900

```

70 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
71     oligonucleotide
73 <400> SEQUENCE: 3
74 cccaccccg atctagactc gagcggccag ggtctcccg atcccgacg agccccaaa 60
75 aaggatcccc cgctgactta attaaggtcg gcggccttga agagcgccg cactttctcg 120
76 cgcccatctc ccactctatc gtgagtgcgg ccgctcttca aggcgcgca ccaagcttca 180
77 ccgcggggca ggtggtggt ggtggtggt gggagcggg gatccgaatt ctgcagaatt 240
78 cctggaggag at 252
81 <210> SEQ ID NO: 4
82 <211> LENGTH: 250
83 <212> TYPE: DNA
84 <213> ORGANISM: Artificial Sequence
86 <220> FEATURE:
87 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
88     oligonucleotide
90 <400> SEQUENCE: 4
91 ggctagcgtt taaacttaag cttggtcggc ggccttgaag agcgccgca ctacgatag 60
92 agtgggagat gggcgcgaga aagtgcggcc gctcttcaag gccgccgacc ttaatggtg 120
93 gcgcctcgtt gtagctagcc tcggtgtggg gatcctttt ggggctcgt ccgggatcgg 180
94 gagaccctg gccgctcgag tctagagggc ccgtttaaac ccgctgatca gctcgactg 240
95 tgccttctag 250
98 <210> SEQ ID NO: 5
99 <211> LENGTH: 249
100 <212> TYPE: DNA
101 <213> ORGANISM: Artificial Sequence
103 <220> FEATURE:
104 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
105     oligonucleotide
107 <400> SEQUENCE: 5
108 ggctagcgtt taaacttaag cttggtcggc ggccttgaag agcgccgca ctacgatag 60
109 agtgggagat gggcgcgaga aagtgcggcc gctcttcaag gccgccgacc ttaataatgc 120
110 atgtctcgtt gtagctagcc caggcgggag atcctttttt ggggctcgt ccgggatcgg 180
111 agacccttg ccgctcgagt ctagagggc cgtttaaac ccgctgatca cctcgactgt 240
112 gccttctag 249
115 <210> SEQ ID NO: 6
116 <211> LENGTH: 245
117 <212> TYPE: DNA
118 <213> ORGANISM: Artificial Sequence
120 <220> FEATURE:
121 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
122     oligonucleotide
124 <400> SEQUENCE: 6
125 ggctagcgtt taaacttaag cttggtcggc ggccttgaag agcgccgca ctacgatag 60
126 agtgggagat gggcgcgaga aagtgcggcc gctcttcaag gccgccgacc ttaatgatgt 120
127 aagtcgttgt agctagcctc ccctggatcc tttttgggg ctgctccgg atcgggagac 180
128 ccctggccgc tcgagtctag agggcccggt taaaccgct gatcagcctc gactgtgcct 240
129 tctag 245
132 <210> SEQ ID NO: 7
133 <211> LENGTH: 281

```

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/411,568

DATE: 05/03/2001
TIME: 16:07:25

Input Set : A:\Inga004c.app
Output Set: N:\CRF3\05032001\I411568.raw

```

134 <212> TYPE: DNA
135 <213> ORGANISM: Artificial Sequence
137 <220> FEATURE:
138 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
139     oligonucleotide
141 <400> SEQUENCE: 7
142 ggctagcgtt taaacttaag cttggtcggc ggccttgaag agcggccgca ctacgatag 60
143 agtgggagat gggcgcgaga aagtgcggcc gctcttcaag gccgccgacc ttaatagatg 120
144 gagactcgtt gtagctagcc cccttgaggg cagattggcg cccgaacagg gacttgaagg 180
145 agatcctttt tgggggctcg tccgggatcg ggagaccctt ggcgctcga gtctagaggg 240
146 cccgttttaa cccgctgata gcctcgact gtgccttcta g                               281
149 <210> SEQ ID NO: 8
150 <211> LENGTH: 149
151 <212> TYPE: DNA
152 <213> ORGANISM: Artificial Sequence
154 <220> FEATURE:
155 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
156     oligonucleotide
158 <400> SEQUENCE: 8
159 agcttggtcg gcggccttga agagcggcgc cactcacgat agagtgggag atgggcgcca 60
160 gaaagtgcgg ccgctcttca aggccgcga ccttaattaa gtcagcgggg gatcctttt 120
161 gggggctcgt ccgggatcgg gagaccctt                               149
164 <210> SEQ ID NO: 9
165 <211> LENGTH: 148
166 <212> TYPE: DNA
167 <213> ORGANISM: Artificial Sequence
169 <220> FEATURE:
170 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
171     oligonucleotide
173 <400> SEQUENCE: 9
174 ggccaggggt ctcccgatcc cggacgagcc cccaaaagg atccccgct gacttaatta 60
175 aggtcggcgg ccttgaagag cggccgcaat ttctcgcgcc catctccac tctatcgtga 120
176 gtgcggccgc tcttcaaggc cgccgacc                               148
179 <210> SEQ ID NO: 10
180 <211> LENGTH: 30
181 <212> TYPE: DNA
182 <213> ORGANISM: Artificial Sequence
184 <220> FEATURE:
185 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
186     oligonucleotide
188 <400> SEQUENCE: 10
189 gatgtaagtc gttgtagcta gcctcccctg                               30
192 <210> SEQ ID NO: 11
193 <211> LENGTH: 36
194 <212> TYPE: DNA
195 <213> ORGANISM: Artificial Sequence
197 <220> FEATURE:
198 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
199     oligonucleotide

```

RAW SEQUENCE LISTING

DATE: 05/03/2001

PATENT APPLICATION: US/09/411,568

TIME: 16:07:25

Input Set : A:\Inga004c.app

Output Set: N:\CRF3\05032001\I411568.raw

```

201 <400> SEQUENCE: 11
202 gatccagggg aggctagcta caacgactta catcat 36
205 <210> SEQ ID NO: 12
206 <211> LENGTH: 35
207 <212> TYPE: DNA
208 <213> ORGANISM: Artificial Sequence
210 <220> FEATURE:
211 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
212     oligonucleotide
214 <400> SEQUENCE: 12
215 ggtgggcgcc tcgttgtagc tagcctcggt gtggg 35
218 <210> SEQ ID NO: 13
219 <211> LENGTH: 41
220 <212> TYPE: DNA
221 <213> ORGANISM: Artificial Sequence
223 <220> FEATURE:
224 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
225     oligonucleotide
227 <400> SEQUENCE: 13
228 gatccccaca ccgaggctag ctacaacgag gcgcccacca t 41
231 <210> SEQ ID NO: 14
232 <211> LENGTH: 34
233 <212> TYPE: DNA
234 <213> ORGANISM: Artificial Sequence
236 <220> FEATURE:
237 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
238     oligonucleotide
240 <400> SEQUENCE: 14
241 aatgcatgtc tcgttgtagc tagcccaggc ggga 34
244 <210> SEQ ID NO: 15
245 <211> LENGTH: 40
246 <212> TYPE: DNA
247 <213> ORGANISM: Artificial Sequence
249 <220> FEATURE:
250 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
251     oligonucleotide
253 <400> SEQUENCE: 15
254 gatctccgc ctgggctagc tacaacgaga catgcattat 40
257 <210> SEQ ID NO: 16
258 <211> LENGTH: 66
259 <212> TYPE: DNA
260 <213> ORGANISM: Artificial Sequence
262 <220> FEATURE:
263 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
264     oligonucleotide
266 <400> SEQUENCE: 16
267 agatggagac tcgttgtagc tagccccctt gagggcagat tggcgccga acagggactt 60
268 gaagga 66
271 <210> SEQ ID NO: 17

```

RAW SEQUENCE LISTING

DATE: 05/03/2001

PATENT APPLICATION: US/09/411,568

TIME: 16:07:25

Input Set : A:\Inga004c.app

Output Set: N:\CRF3\05032001\I411568.raw

```

272 <211> LENGTH: 72
273 <212> TYPE: DNA
274 <213> ORGANISM: Artificial Sequence
276 <220> FEATURE:
277 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
278     oligonucleotide
280 <400> SEQUENCE: 17
281 gatctccttc aagtcctgt tcgggcgcca atctgccctc aagggggcta gctacaacga 60
282 gtctccatct at                                     72
285 <210> SEQ ID NO: 18
286 <211> LENGTH: 27
287 <212> TYPE: DNA
288 <213> ORGANISM: Artificial Sequence
290 <220> FEATURE:
291 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
292     oligonucleotide
294 <400> SEQUENCE: 18
295 ccggatctag accgcaagct tcaccgc                                     27
298 <210> SEQ ID NO: 19
299 <211> LENGTH: 21
300 <212> TYPE: DNA
301 <213> ORGANISM: Artificial Sequence
303 <220> FEATURE:
304 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
305     oligonucleotide
307 <400> SEQUENCE: 19
308 ggtgaagctt gcggtctaga t                                     21
311 <210> SEQ ID NO: 20
312 <211> LENGTH: 32
313 <212> TYPE: DNA
314 <213> ORGANISM: Artificial Sequence
316 <220> FEATURE:
317 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
318     oligonucleotide
320 <400> SEQUENCE: 20
321 gggatcagga gctcagatca tgggaccaat gg                                     32
324 <210> SEQ ID NO: 21
325 <211> LENGTH: 24
326 <212> TYPE: DNA
327 <213> ORGANISM: Artificial Sequence
329 <220> FEATURE:
330 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
331     oligonucleotide
333 <400> SEQUENCE: 21
334 cttgtgcaca agctttgcag gtct                                     24
337 <210> SEQ ID NO: 22
338 <211> LENGTH: 18
339 <212> TYPE: DNA
340 <213> ORGANISM: Artificial Sequence

```

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/411,568

DATE: 05/03/2001

TIME: 16:07:26

Input Set : A:\Inga004c.app

Output Set: N:\CRF3\05032001\I411568.raw

L:44 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1